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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/895,468 | 06/29/2001 | Alexey S. Kabalnov | 10003878 -1 | 6545 |

7590 05/22/2003
HEWLETT-PACKARD COMPANY
Intellectual Property Administration
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EXAMINER

TRAN, LY T

| ART UNIT | PAPER NUMBER |
|----------|--------------|
|----------|--------------|

2853

DATE MAILED: 05/22/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/895,468

Applicant(s)

KABALNOV ET AL.

Examiner

Ly T TRAN

Art Unit

2853

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10 March 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) 16-20 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Election/Restrictions

1. Claims 16-20 withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention there being no allowable generic or linking claim. Election was made **without** traverse in Paper No. 7

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-5 and 9-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tognetti et al. (EP 960 873) in view of Withington et al. (USPN 5,714,236)

Tognetti et al. discloses a method for printing on an article using any types of printing process (Page 2: line 3-15) comprising:

- Applying a fluid glazing material to an article creating a coating surface on the article, the fluid glazing material contains an under-printing agent (Page 2: line 33-35);
- Applying a chromophore-containing fluid onto the coated surface, the fluid primer contacts the chromophore-containing fluid (Page 2: line 36-40);
- Firing the article (Page 2: line 41);

- The chromophore containing fluid comprise a transition metal salt (Page 2; line 77);
- Transfer medium (Page 2: line 13);
- The article is a ceramic (Page 2: line 19-21).

However, Tognetti et al. fail to teach using an ink jet printer.

Withington et al teaches printing on ceramic using an ink jet printer (Column 2: line 29-33, Column 3: line 26-36).

It would have been obvious to one having skill in the art at the time the invention was made to modify the teaching of Tognetti et al to use an ink jet print head as taught by Withington et al. The motivation of doing so is to obtain a high speed and high resolution.

3. Claims 6 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tognetti et al. (EP 960 873) in view of Withington et al (USPN 5,714,236) as applied to claims 1-5 above, and further in view of Yokoyama et al. (USPN 4,256,493).

The combination of Tognetti et al and Withington et al. fails to teach the transition metal salt is selected from the group consisting of nitrates, chlorides, acetates, chromates, citrates, sulfates and combinations thereof.

Yokoyama et al. teaches the transition metal salt is selected from the group consisting of acetates, nitrates and chlorides (Column 6: line 5-8).

It would have been obvious to one having skill in the art at the time the combined invention was made to have the transition metal salt of Tognetti et al selected from the

group consisting of acetates, nitrates and chlorides as taught by Yokoyama et al. The motivation of doing so is to improve the light-resistance in the presence of a water-soluble ultraviolet absorbing agent (Yokoyama USPN 4,256,493, Column 5: line 1-4).

4. Claims 7 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tognetti et al. (EP 960 873) in view of Withington et al. (USPN 5,714,236) as applied to claims 1-5 above, and further in view of Daniels (USPN 4,136,076).

The combination of Tognetti et al and Withington et al fails to teach the metal ion provided by the transition metal sulfate salt selected from the group consisting of cobalt, iron, chromium, copper, manganese, nickel, uranium, lead, gold, molybdenum, silver, tin, vanadium, cesium, neodymium and combinations thereof.

Daniels teaches the metal ion provided by the transition metal sulfate salt is selected from the group consisting of cobalt, nickel and tin.

It would have been obvious to one having skill in the art at the time the invention was made to have the metal ion provided by the transition metal sulfate salt selected from the group consisting of cobalt, nickel and tin as taught by Daniels. The motivation of doing so is to obtain fast drying with good extended print quality (Daniels USPN 4,136,076, Column 3: line 59-60).

5. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tognetti et al. (EP 960 873) in view of Withington et al. (USPN 5,714,236) as applied to claim 1 above, and further in view of Gelbart (USPN 6,283,589).

The combination of Tognetti et al and Withington et al fails to teach an additional coating selected from a group consisting of a glaze, an adhesive, a colorant, and a reflective material id applied.

Gelbart teaches an additional coating selected from a group consisting of a glaze (Column 4: line 31-35).

It would have been obvious to one having skill in the art at the time the combined invention was made to use using an additional coating as taught by Gelbart in the teaching of Tognetti et al as modified. The motivation of doing so is to providing a protection layer therefore obtain a high quality printing.

Response to Arguments

6. Applicant's arguments with respect to claims 1-15 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ly T TRAN whose telephone number is 703-308-0752. The examiner can normally be reached on M-F (7:30am-5pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Russ Adams Barlow can be reached on 703-308-2847. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7724 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0967.



May 15, 2003



JUDY NGUYEN
PRIMARY EXAMINER